

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	190	model adj (based or predictive) adj control same optimiz\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:40
L4	19	"703".clas. and model adj (based or predictive) adj control same optimiz\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:34
L5	16	L4 and @ad<"20021105"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:34
L6	0	L5 and model\$4 near6 turbine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:29
L7	14	L3 and model\$4 near6 turbine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:31
L8	1	L7 and @ad<"20021105"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:32
L9	106	"700".clas. and model adj (based or predictive) adj control same optimiz\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:45
L10	56	L9 and @ad<"20021105"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:40
L11	0	L10 and gas adj turbine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:35

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L12	3	L10 and turbine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:35
L13	19	model adj (based or predictive) adj control same optimiz\$5 and gas adj turbine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:40
L14	2	L13 and @ad<"20021105"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:45
L15	15	"702".clas. and model adj (based or predictive) adj control same optimiz\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:45
L16	8	L15 and @ad<"20021105"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 17:07
L17	0	L16 and turbine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:46
L18	0	L16 and engine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:46
L19	2	"6823253".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 17:15
L20	2	"6823675".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 17:09
L21	2	"20040088060"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 17:15




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#### All Results

[S Qin](#)  
[P Kokotović](#)  
[L Chen](#)  
[T Badgwell](#)  
[M Arcak](#)

#### Nonlinear Model Predictive Control Experiments on a Laboratory Gas Turbine Installation - group of 4 »

HA van Essen, HC de Lange - Journal of Engineering for Gas Turbines and Power, 2001 - link.aip.org  
 ... and the real-time (nonlinear) **model predictive control** (MPC) implementation ... Results on both **model** validation and ... MPC configuration to **control** the laboratory ...  
[Cited by 8](#) - [Related Articles](#) - [Web Search](#)

#### Nonlinear model predictive control of a laboratory gas turbine installation - group of 3 »

BG Vroemen, HA van Essen, AA van Steenhoven, JJ ... - 1998 - csa.com  
 ... 5 **Optimization** Techniques. The feasibility of **Model Predictive Control** (MPC) applied to a laboratory **gas turbine** installation is investigated. ...  
[Cited by 7](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

#### A survey of industrial model predictive control technology - group of 4 »

SJ Qin, TA Badgwell - **Control** Engineering Practice, 2003 - kasr.elf.stuba.sk  
 ... (MPC) **Model Predictive Control** ... linear step response **model** for the ... controller adjusted fuel **gas** pressure in three burners in order to **control** stream temperature ...  
[Cited by 107](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

#### Multiobjective Genetic Algorithms with Applications to Control Engineering Problems

CMM de Fonseca - 1995 - citeseer.ist.psu.edu  
 ... 1994 109 **Predictive models** for the ... 1992 11 Nonlinear **model** term selection ... context) - Uppuluri - 1989 1 An adaptive system for process **control** using genetic ...  
[Cited by 40](#) - [Related Articles](#) - [Cached](#) - [Web Search](#) - [Library Search](#)

#### Model predictive control and the optimization of power plant loadwhile considering lifetime ... - group of 2 »

E Gallestey, A Stothert, M Antoine, S Morton - Power Systems, IEEE Transactions on, 2002 - ieeexplore.ieee.org  
 ... developed lifetime **models** of a complete combined cycle power plant, including **gas** turbine ... GALLESTEY et al.: **MODEL PREDICTIVE CONTROL AND THE OPTIMIZATION** ...  
[Cited by 9](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

#### Modeling and control of co-generation power plants: a hybrid system approach - group of 5 »

G Ferrari-Trecate, E Gallestey, P Letizia, M ... - **Control** Systems Technology, IEEE Transactions on, 2004 - ieeexplore.ieee.org  
 ... we recast the economic **optimization** problem as a ... systems, mixed integer linear programming, **model predictive control**. ... gases of the **gas turbine** and generates ...  
[Cited by 14](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

#### ...-based multivariable long-range predictivecontrol strategy applied in thermal power plant control - group of 4 »

G Prasad, E Swidenbank, BW Hogg - Energy Conversion, IEEE Transactions on, 1998 - ieeexplore.ieee.org  
 ... them in the **control** algorithm with real-time **optimization**. ... Based on this **model** a power plant ... a constrained multivariable long-range **predictive control** strategy ...  
[Cited by 28](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

#### Industrial applications of fuzzy logic at General Electric - group of 2 »

PP Bonissone, V Badami, KH Chiang, PS Khedkar, KW ... - Proceedings of the IEEE, 1995 - ieeexplore.ieee.org

... Fuzzy heuristic rules to limit **optimization** space 1 KB ... on-line by a thermodynamic **model** that runs ... From top to bottom: (a) baseline **control**: crisp supervisory ...  
[Cited by 40](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

**Advanced Adaptive Control - group of 2 »**

H Wang, GP Liu, CJ Harris, M Brown - 1995 - [eprints.ecs.soton.ac.uk](#)  
... 8.1 Introduction 8.2 The Smith **Predictive Control** 8.3 The ... 9.3 Meta Identification  
Rules 9.4 **Model** Adjusting Rules ... Results 10.7 Application to The **Control** of A ...  
[Cited by 26](#) - [Related Articles](#) - [Cached](#) - [Web Search](#) - [Library Search](#)

**Experimental investigation of limit-cycle oscillations in an unstable gas turbine combustor - group of 7 »**

TC Liuwen - Journal of Propulsion and Power(0748-4658), 2002 - [pdf.aiaa.org](#)  
... or in the development and **optimization** of active ... of the nonlinear processes that  
**control** the limit ... data will aid in the development of **predictive models** and a ...  
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**model predictive control optimization of gas turbine**

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### 1 [Level set and PDE methods for computer graphics](#)


 David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker  
 August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
**Publisher:** ACM Press
 Full text available: [pdf\(17.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

### 2 [Power reduction techniques for microprocessor systems](#)


 Vasanth Venkatachalam, Michael Franz  
 September 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 3
**Publisher:** ACM Press
 Full text available: [pdf\(602.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Power consumption is a major factor that limits the performance of computers. We survey the "state of the art" in techniques that reduce the total power consumed by a microprocessor system over time. These techniques are applied at various levels ranging from circuits to architectures, architectures to system software, and system software to applications. They also include holistic approaches that will become more important over the next decade. We conclude that power management is a ...

**Keywords:** Energy dissipation, power reduction

### 3 [Improving the aircraft design process using Web-based modeling and simulation](#)


 John A. Reed, Gregory J. Follen, Abdollah A. Afjeh  
 January 2000 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**,  
 Volume 10 Issue 1
**Publisher:** ACM Press
 Full text available: [pdf\(1.06 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Designing and developing new aircraft systems is time-consuming and expensive. Computational simulation is a promising means for reducing design cycle times, but requires a flexible software environment capable of integrating advanced multidisciplinary and multifidelity analysis methods, dynamically managing data across heterogeneous computing platforms, and distributing computationally complex tasks. Web-based

simulation, with its emphasis on collaborative composition of simulation models, ...

**Keywords:** Java, Web-based simulation, aircraft design, object-oriented

4 Industrial track: logistics & transport: PowerMatcher: multiagent control in the electricity infrastructure



J. K. Kok, C. J. Warmer, I. G. Kamphuis

July 2005 **Proceedings of the fourth international joint conference on Autonomous agents and multiagent systems AAMAS '05**

**Publisher:** ACM Press

Full text available: pdf(400.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Different driving forces push the electricity production towards decentralization. As a result, the current electricity infrastructure is expected to evolve into a network of networks, in which all system parts communicate with each other and influence each other. Multi-agent systems and electronic markets form an appropriate technology needed for control and coordination tasks in the future electricity network. We present the PowerMatcher, a market-based control concept for supply and demand ma ...

**Keywords:** electrical power systems automation, electricity infrastructure, electronic markets, multi-agent control, multi-agent systems

5 Design automation for microfluidics-based biochips



Krishnendu Chakrabarty, Jun Zeng

October 2005 **ACM Journal on Emerging Technologies in Computing Systems (JETC)**, Volume 1 Issue 3

**Publisher:** ACM Press

Full text available: pdf(7.48 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Advances in microfluidics technology offer exciting possibilities in the realm of enzymatic analysis, DNA analysis, proteomic analysis involving proteins and peptides, immunoassays, implantable drug delivery devices, and environmental toxicity monitoring. Microfluidics-based biochips are therefore gaining popularity for clinical diagnostics and other laboratory procedures involving molecular biology. As more bioassays are executed concurrently on a biochip, system integration and design complexi ...

**Keywords:** Microfluidics, biochips, design automation

6 High-cost CFD on a low-cost cluster

Thomas Hauser, Timothy I. Mattox, Raymond P. LeBeau, Henry G. Dietz, P. George Huang  
November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**

**Publisher:** IEEE Computer Society

Full text available: pdf(4.00 MB) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Direct numerical simulation of the Navier-Stokes equations (DNS) is an important technique for the future of computational fluid dynamics (CFD) in engineering applications. However, DNS requires massive computing resources. This paper presents a new approach for implementing high-cost DNS CFD using low-cost cluster hardware. After describing the DNS CFD code DNSTool, the paper focuses on the techniques and tools that we have developed to customize the performance of a cluster ...

7 A simulation model for assessment of large-scale power system reliability

John H. Blackstone, Gary L. Hogg, Alton D. Patton

January 1980 **Proceedings of the 12th conference on Winter simulation**

**Publisher:** IEEE Press

Full text available:  [pdf\(942.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes research on the applicability of Monte Carlo simulation to the study of large scale power system reliability. Reliability in this context refers to the ability of the system to meet demand for electricity over time. A generalized program capable of modeling any pool of generators was developed using a modified version of the GASP-IV simulation language. The logic of this program is described and the results of two applications of the program are presented.

## 8 Progressive meshes



Hugues Hoppe

August 1996 **Proceedings of the 23rd annual conference on Computer graphics and interactive techniques**

**Publisher:** ACM Press

Full text available:  [pdf\(431.00 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** geometry compression, level of detail, mesh simplification, progressive transmission, shape interpolation



## 9 Networked agents for scientific computing



Tzvetan Drashansky, Elias N. Houstis, Naren Ramakrishnan, John R. Rice

March 1999 **Communications of the ACM**, Volume 42 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(441.16 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)  
 [html\(29.20 KB\)](#)

## 10 Real world applications: Three dimensional evolutionary aerodynamic design optimization with CMA-ES



Martina Hasenjäger, Bernhard Sendhoff, Toyotaka Sonoda, Toshiyuki Arima

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

**Publisher:** ACM Press

Full text available:  [pdf\(2.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present the application of evolutionary optimization methods to a demanding, industrially relevant engineering domain, the three-dimensional optimization of gas turbine stator blades. This optimization problem is high-dimensional search and computationally very expensive. We show that, despite of its difficulty, the problem is feasible. Our approach not only successfully optimizes the aerodynamic design but also yields interesting results from an engineering point of view.

**Keywords:** covariance matrix adaptation, design optimization, evolutionary strategies, real world application

## 11 Computational fluid dynamic-current capabilities and directions for the future



P. Kutler

August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

**Publisher:** ACM Press

Full text available:  [pdf\(5.71 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Computational fluid dynamics (CFD) has made great strides in the detailed simulation of complex fluid flows, including some of those not before understood. It is now being routinely applied to some rather complicated problems, and starting to impact the design cycle of aerospace flight vehicles and their components. It is being used to complement and is being complemented by experimental studies. Several examples are presented in

the paper to illustrate the current state-of-the-art. Include ...

## 12 Process control supervision using qualitative models



R. K. Stobart, N. R. Shadbolt

June 1990 **Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '90**

**Publisher:** ACM Press

Full text available: [pdf\(752.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In modern process and power plant the cost of installation demands operation at peak efficiency for prolonged periods. This places significant demands on the control and monitoring systems to keep efficiency high while giving significant warning of a drop in efficiency or a component failure. We present an approach to process monitoring based on Qualitative Models which are used as a framework in which a range of monitoring techniques are located. The methods are described in the context of ...

## 13 The elements of nature: interactive and realistic techniques



Oliver Deussen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

**Publisher:** ACM Press

Full text available: [pdf\(17.65 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

## 14 Simulation of a flexible manufacturing cell



Richard Godziela

December 1986 **Proceedings of the 18th conference on Winter simulation**

**Publisher:** ACM Press

Full text available: [pdf\(535.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

American aerospace manufacturing operations are evaluating and implementing numerous Flexible Manufacturing Systems. Each application is a complex combination of various support systems found in a more traditional production environment. Predicting how these systems will work within the integrated framework of an FMS can be very complicated. Simulation is a valuable tool for not only evaluating a complex system for feasibility, but it can also be incorporated as a design aid. The following ...

## 15 The expanding world of computers



E. L. Harder

April 1968 **Communications of the ACM**, Volume 11 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(2.70 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The onward sweep of automatic processing of information is impeded by nine principal barriers: geography, cost, problem complexity, man-machine communication, inadequate sensors, lack of understanding, distance, time, and size. The main incentive for breaching these barriers is the universal need for processing information, ever more urgent as the greater part of human work activity changes from production to service. Computer developments in hardware, programming, time-sharing, ...

**Keywords:** barriers, computer science, computer-aided design, data communication, developments, education, forecast, introduction, philosophy, problem-oriented languages,



survey

**16** Risks to the public in computer systems

Peter G. Neumann

October 1986 **ACM SIGSOFT Software Engineering Notes**, Volume 11 Issue 5**Publisher:** ACM PressFull text available: [pdf\(2.19 MB\)](#) Additional Information: [full citation](#), [index terms](#)**17** Artificial intelligence in the factory of the future

Mark S. Fox

January 1984 **Proceedings of the ACM 12th annual computer science conference on SIGCSE symposium****Publisher:** ACM PressFull text available: [pdf\(922.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the Intelligent Management System (IMS) project, which is part of the Factory of the Future project in the Robotics Institute of Carnegie-Mellon University. IMS is a long term project concerned with applying artificial intelligence techniques in aiding professionals and managers in their day to day tasks. This report discusses both the long term goals of IMS, and current research.

**18** Modeling methodology a: Optimization and response surfaces: an optimization-based multi-resolution simulation methodology

Darren T. Drewry, Paul F. Reynolds, William R. Emanuel

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers****Publisher:** Winter Simulation ConferenceFull text available: [pdf\(249.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The need for new approaches to the consistent simulation of related phenomena at multiple levels of resolution is great. While many fields of application would benefit from a complete and approachable solution to this problem, such solutions have proven extremely difficult. We present a multi-resolution simulation methodology which uses numerical optimization as a tool for maintaining external consistency between models of the same phenomena operating at different levels of temporal and/or sp ...

**19** An updated survey of GA-based multiobjective optimization techniques

Carlos A. Coello

June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2**Publisher:** ACM PressFull text available: [pdf\(250.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

After using evolutionary techniques for single-objective optimization during more than two decades, the incorporation of more than one objective in the fitness function has finally become a popular area of research. As a consequence, many new evolutionary-based approaches and variations of existing techniques have recently been published in the technical literature. The purpose of this paper is to summarize and organize the information on these current approaches, emphasizing the importance ...

**Keywords:** artificial intelligence, genetic algorithms, multicriteria optimization, multiobjective optimization, vector optimization

**20** Modeling, simulation, sensitivity analysis, and optimization of hybrid systems

Paul I. Barton, Cha Kun Lee

October 2002 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**,

Volume 12 Issue 4

**Publisher:** ACM PressFull text available:  pdf(383.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Hybrid (discrete/continuous) systems exhibit both discrete state and continuous state dynamics which interact to such a significant extent that they cannot be decoupled and must be analyzed simultaneously. We present an overview of the work that has been done in the modeling, simulation, sensitivity analysis, and optimization of hybrid systems, paying particular attention to the interaction between discrete and continuous dynamics. A concise intuitive framework for hybrid system modeling is pres ...

**Keywords:** Hybrid automata, combined discrete/continuous simulation, consistent reinitialization, discontinuities, sensitivity analysis, state events, transitions

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- ☐ 1. **Modeling and optimization of dispatch strategies for remote hybrid power systems**  
by Barley, C. Dennis, Ph.D., Colorado State University, 1996, 125 pages; AAT 9638661

Abstract

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## Patent Search

Patents **1 - 7** of **7** on **model predictive control and optimization and gas turbine**. (0.00 seconds)

### Methods and apparatus for model predictive control of aircraft gas turbine engines

US Pat. 6823253 - Filed Nov 27, 2002 - General Electric Company

Nonlinear **model predictive control** maintains robust, high-performance **control** of

... This **optimization** uses a plant **model** to describe the evolution of the ...

### Adaptive model-based control systems and methods for controlling a gas turbine

US Pat. 6823675 - Filed Nov 13, 2002 - General Electric Company

20 Using reconfigurable **model predictive control(s)** allows the **control** system to use

... MPC is based on the constrained open-loop **optimization** of a finite ...

### Process of liquefying a gaseous, methane-rich feed to obtain liquefied natural gas

US Pat. 6272882 - Filed Jun 6, 2000 - Shell Research Limited

**Optimization** can be done in two ways; one way is to optimize separately, ...

The above described **model predictive control** is used to achieve this objective. ...

### Method of controlling combustion in a homogeneous charge compression ignition engine

US Pat. 6953024 - Filed Aug 19, 2002 - Tiax LLC

The **predictive model** based **control** of the CIDR engine is more complex than

controlling an ... in character to form the basis for the **optimization** process. ...

### Sensor prediction system utilizing case based reasoning

US Pat. 6701195 - Filed Jun 15, 2001 - Siemens Aktiengesellschaft

EP 0 529 397 A1 discloses a method for controlling the 45 operation of liquefied

neutral **gas** process which utilizes **gas turbine**-driven refrigeration ...

### Maximizing process production rates using permanent constraints

US Pat. 5457625 - Filed Apr 13, 1994 - The M. W. Kellogg Company

The **control** problem is formulated as an **optimization** problem. ... the performance

of H/N **model predictive control** with respect to constraint **control**. FIG. ...

### Energy management system and methods for the optimization of distributed generation

US Pat. 6757591 - Filed Aug 10, 2001

First, the networks may be used as part of a feed forward **predictive** system. ...

60 Natural **gas** energy sources include distributed generation sources of ...

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